Recombinant human Calnexin protein

Catalog Number: ATGP0388

PRODUCT INFORMATION

Expression system
E.coli

Domain
21-481aa

UniProt No.
P27824

NCBI Accession No.
NP_001019820.1

Alternative Names
CNX, IP90, P90, CANX, FLJ26570, Histocompatibility complex class I antigen binding protein p88,

PRODUCT SPECIFICATION

Molecular Weight
52.5 kDa (462aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT and 20% glycerol

Purity
> 90% by SDS-PAGE

Tag
Non-Tagged

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
Calnexin, also known as IP90, p88 and p90, is a member of the calnexin family of molecular chaperones. This protein is a calcium-binding, endoplasmic reticulum (ER) -associated protein that interacts transiently with newly synthesized N-linked glycoproteins, facilitating protein folding and assembly. It may also play a central role in the quality control of protein folding by retaining incorrectly folded protein subunits within the ER for degradation. Recombinant Calnexin protein was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

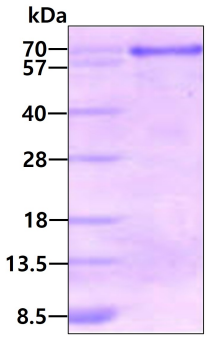
MHDGHDDDVI DIEDDLDDVI EEVEDSKPDT TAPPSSPKVT YKAPVPTGEV YFADSFDRGT LSGWILSKAK KDDTDDEIAK YDGKWEVEEM KESKLPGDKG LVLMSRAKHH AISAKLNKPF LFDTKPLIVQ YEVNFQNGIE CGGAYVKLLS KTPELNLDQF HDKTPYTIMF GPDKCGEDYK LHFIFRHKNP KTGIYEEKHA KRPDADLKTY FTDKKTHLYT LILNPDNSFE ILVDQSVVNS GNLLNDMTPP VNPSREIEDP EDRKPEDWDE RPKIPDPEAV KPDDWDEDAP AKIPDEEATK PEGWLDDEPE YVPDPDAEKP EDWDEDMDGE WEAPQIANPR CESAPGCGVW QRPVIDNPNY KGKWKPPMID NPSYQGIWKP RKIPNPDFFE DLEPFRMTPF SAIGLELWSM TSDIFFDNFI ICADRRIVDD WANDGWGLKK AADGAAEPGV VGQMIEAAEE RP

General References

Wang B., et al. (2009) Immunology. 128(1):43-57.
Millar DJ., et al. (2009) Proteomics. 9(9):2355-72.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.